

BALDOR® • RELIANCE 

Product Information Packet

IDVSM4115T

50HP,1775RPM,3PH,60HZ,326T,1272M,TEFC,F1

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY141	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12G534	Layout:	12LYG534	Poles:	04	Created Date:	10-16-2015
Base:	RG	Eff. Date:	09-16-2019	Leads:	9#6		

Specs			
Catalog Number:	IDVSM4115T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	326T	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	50.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 6 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	1272M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	85
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Double Shaft
Current @ Voltage:	116.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	58.000 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	Shaft Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	Normally Closed Thermostat
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3302L	
CAT NO	IDVSM4115T
SPEC.	12G534Y141G1
FRAME	326T HP 50 TE
VOLTS	230/460
MAG CUR	40/20 FLA 116/58
RPM	1775 RPM MAX 2700
HZ	60 PH 3 CLASS F
SER.F.	1.00 SL HZ 0.8
NEMA-NOM-EFF	94.5 WK2 9.59
RATING	40C AMB-CONT
DE BRG	6312 ODE BRG 6311
CC	010A SN
	1.5:1 CHP PWM

Parts List		
Part Number	Description	Quantity
SA309111	SA 12G534Y141G1	1.000 EA
RA296452	RA 12G534Y141G1	1.000 EA
09FN3001C03	EXTERNAL FAN, PLASTIC	1.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
12EP1107A05	FR ENDPLATE, MACH 324-6T	1.000 EA
HA3400A13	STUD, 1/2-13 X 7" WELKER	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
10XN3118K36	5/16-18 X 2.25" HEX HD, GRADE 5	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
12EP1106A01	PU ENDPLATE, MACH	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
12FH1002A27	FAN COVER, MACH	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA6881	BEI HS35 THRU SHAFT ENCODER PROTECTIVE C	1.000 EA
10XN2520K12	1/4-20 X.75 GRD 5	3.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.200 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025N19	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA

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NP3302L	ALUM INV UL CSA CC (W/OUT DESIGN FIELD)	1.000 EA
10PA1010	PACKAGING GROUP, PRINT PK1151A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000013	ZRTG PE ASSEMBLY	1.000 EA

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONN EQ.CKT OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	116/58	Base Volt	460	R1	0.056	X1	0.352
HP	50HP	NL AMPS	19.8	R2	0.050	X2	0.440
BASE SPEED	1775	Slips	0.83			XM	11.900
PHASE/HZ	3/60	WK ² (lb-ft ²)	9.59				

Rated Full Load Data


	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1778	49.8	147.0	460	60	57.6
Max Speed	2665	49.8	98.1	460	90	56.0
Min Speed	0	0.0	147.0	14.88	0.83	57.6

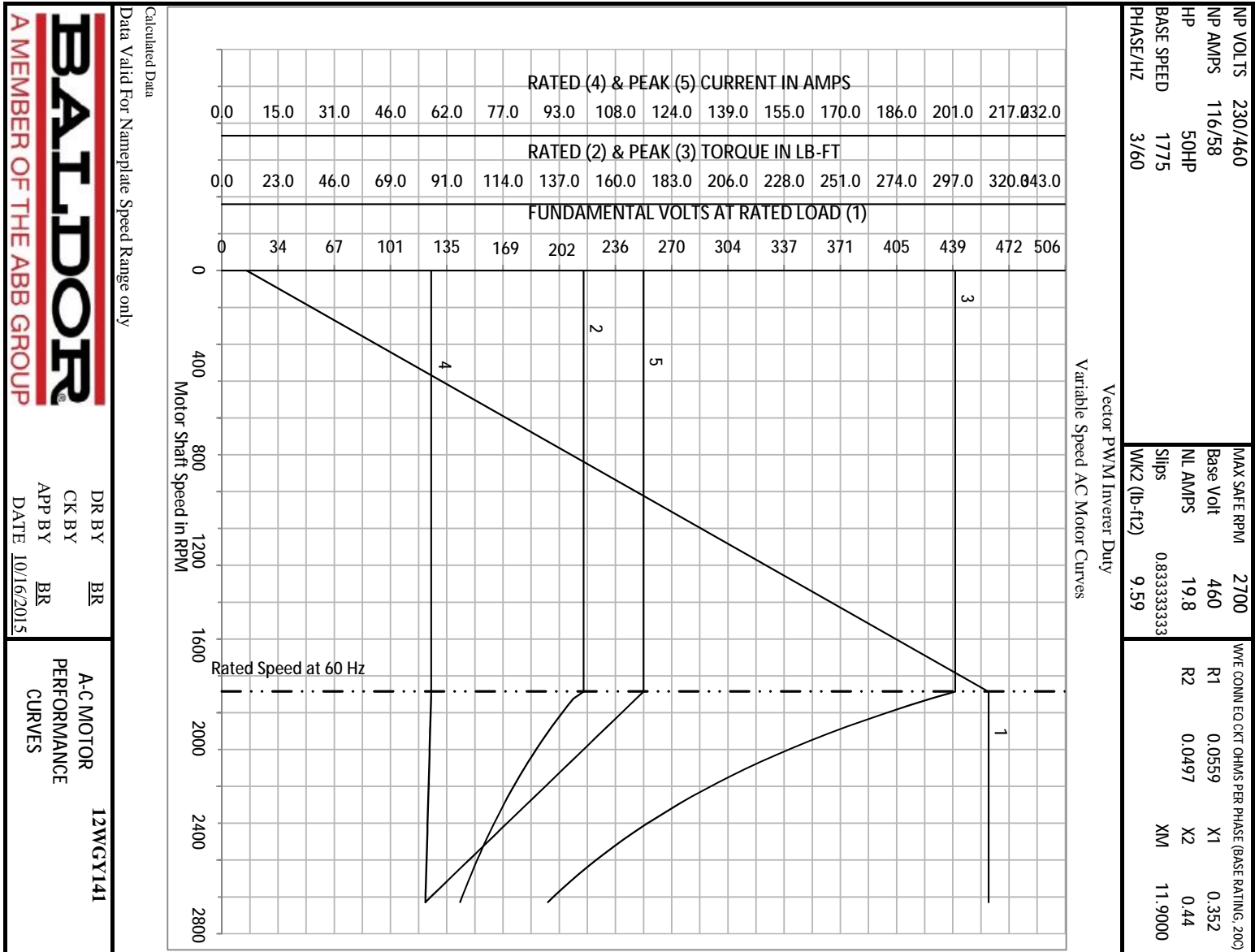
Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	19.8
1/4	1795	12.3	36.1	460	60	24.2
1/2	1789	24.8	72.8	460	60	33.5
3/4	1784	37.4	110.0	460	60	44.7
Full Load	1778	49.8	147.0	460	60	57.6
O/L	1754	99.6	298.0	460	60	116.0

Blower Data	Volts	Pn/Hz	FL Amps	LR Amps	Frame	CFM

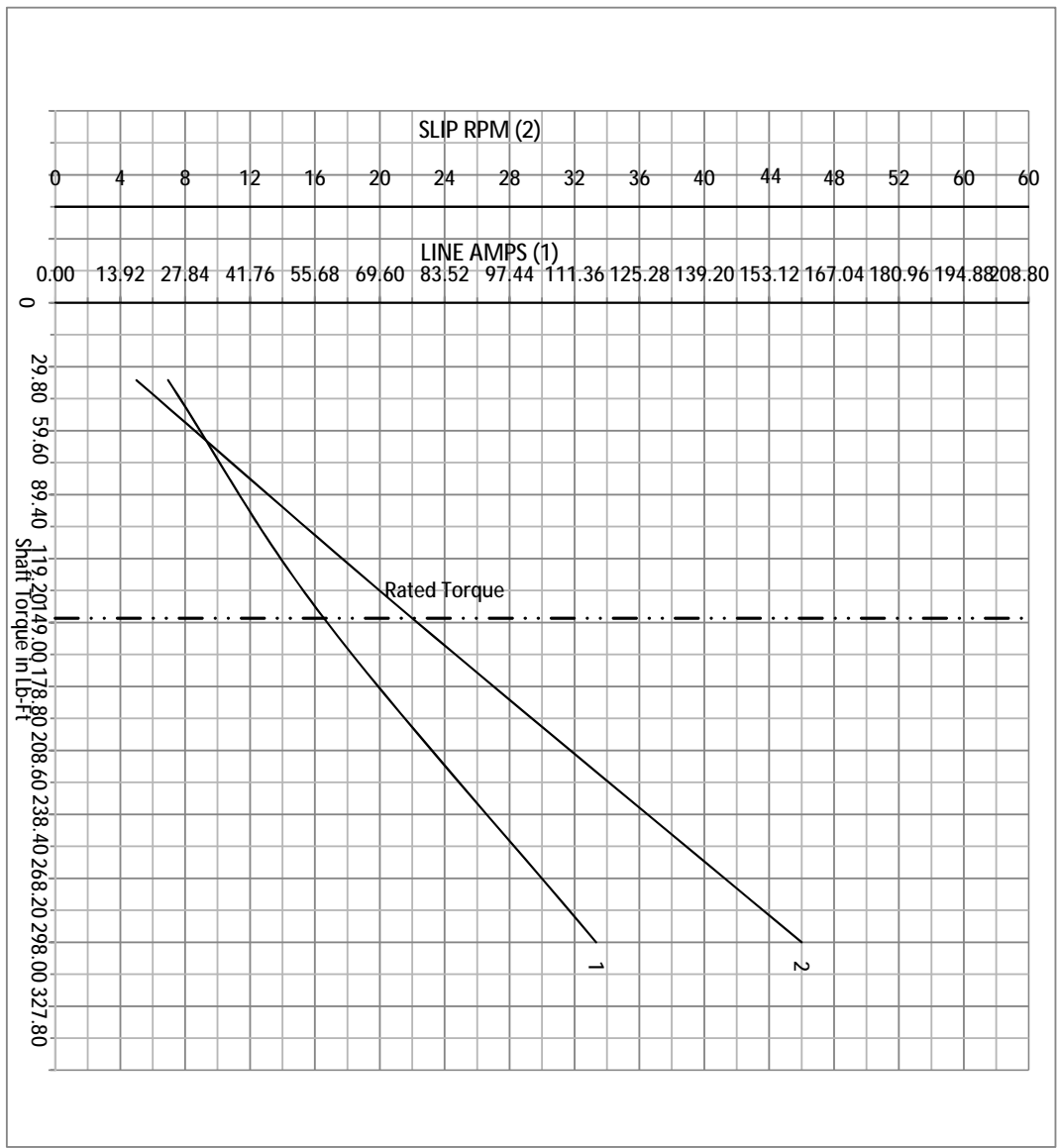
Remarks: Calculated Data
Vector PWM Inverter Duty

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	CK BY	BR	
	APP BY	BR	
	DATE	10/16/2015	



NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONN. EQ. CT. OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	116/58	Base Volt	460	R1	0.0559	X1	0.352
HP	50HP	NL AMPS	19.8	R2	0.0497	X2	0.44
BASE SPEED	1775	Slips	0.833333333			XM	11.9
PHASE/HZ	3/60	WK2 (lb-ft ²)	9.59				

Vector PWM Inverter Duty
Variable Speed AC Motor Curves

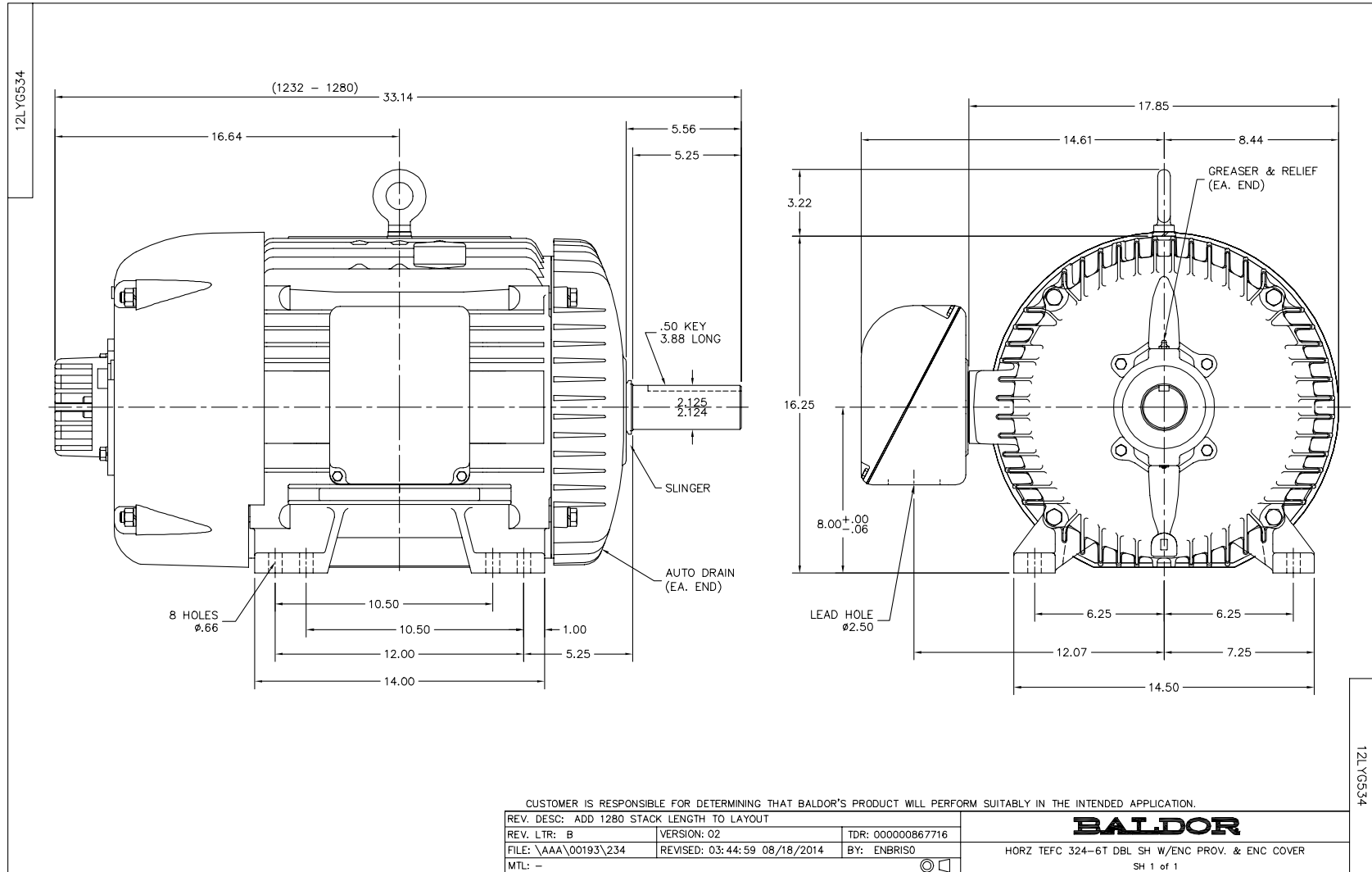


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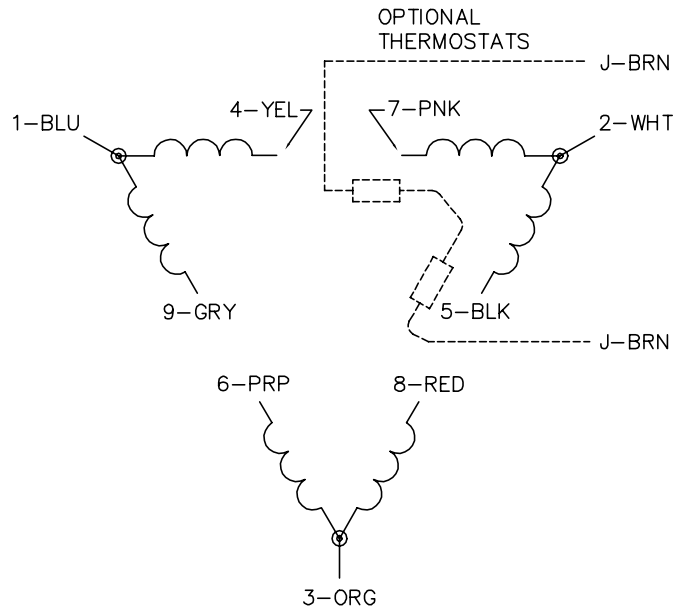
Data Valid For Nameplate Speed Range only

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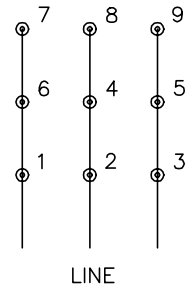
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CK BY	BR	PERFORMANCE	
APP BY	BR	CURVES	
DATE	10/16/2015		



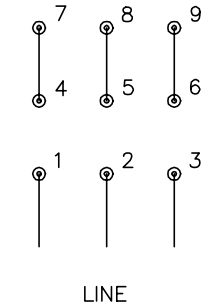
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

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3PH, DV, 9 LEADS, DELTA CONNECTION

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